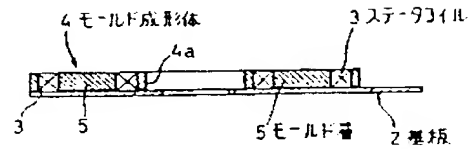


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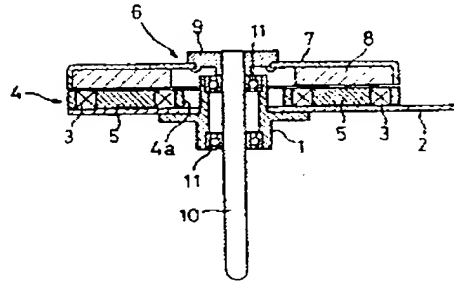


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INVENTOR : CHIBA HIRONORI;

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TITLE : AXIAL GAP TYPE BRUSHLESS MOTOR



ABSTRACT : PURPOSE: To reduce the vibrational noise by integrally molding a plurality of stator coils with an elastic material and by fixing this mold layer to the substrate.

CONSTITUTION: In a cylindrical bearing housing 1 a substrate 2 is fixed to its outside circumference. A mold compact 4 integrated with six stator coils 3 is fixed to this substrate 2. The compact 4 is thin disk-shaped with a circular opening 4a in the center and is of a structure where each stator coil 3 is integrally buried in the annularly arranged state with a mold layer 5 made of an elastic material, e.g., styrene-butadiene rubber. A rotor 6 is composed of a shallow-bottomed container-shaped rotor yoke 7 whose undersurface is opened, an annular rotor magnet 8, a boss section 9 and a rotating shaft 10 and is releasably supported to a bearing 11. The stator coil 3 is thereby fixed to the substrate 2 through a mold layer 5 made of an elastic material, so that no vibration of a coil will be conveyed to the substrate 8 as it is absorbed with the elastic force of the mold layer 5.

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